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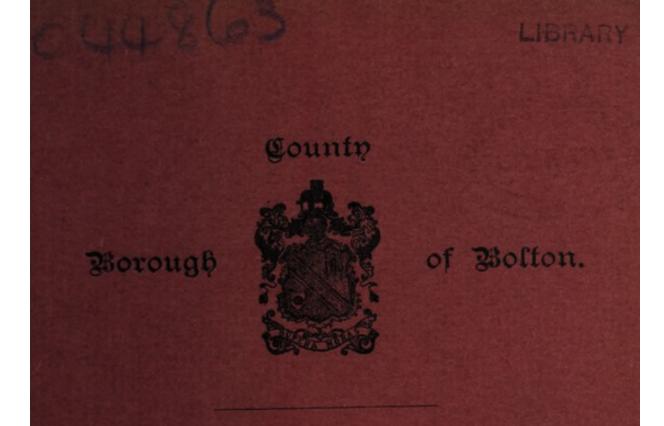
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# ANNUAL REPORT

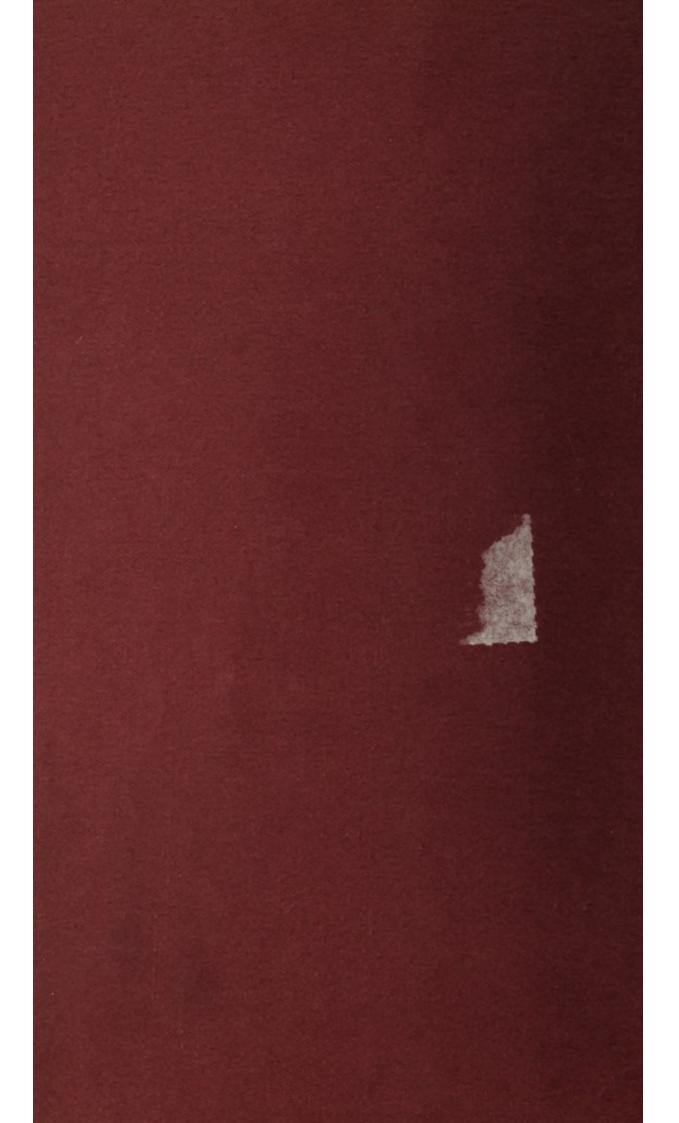
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Medical Officer of Health

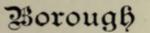
FOR

1944.

BOLTON : HOPEINS & SONS, CENTRAL STREET, 1945.



## County





of Bolton.

# ANNUAL REPORT

### OF THE

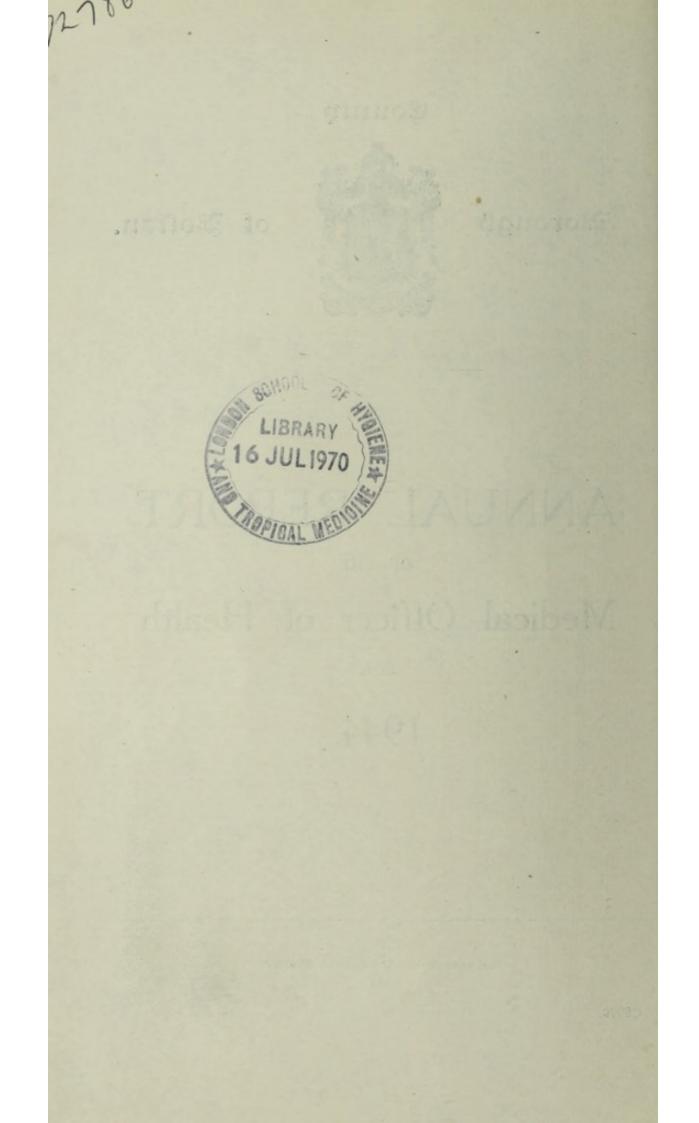
## Medical Officer of Health

FOR

## 1944.

BOLTON : HOPKINS & SONS, CENTRAL STREET, 1945.

C8079.



### PUBLIC HEALTH DEPARTMENT, Civic Centre, Bolton.

July, 1945.

#### To the Chairman and Members of the Public Health Committee :

LADIES AND GENTLEMEN,

I have the honour to present the Report for 1944, the seventythird Annual Report on the Health of Bolton.

There is still considerable preventable illness and loss of life, but in all the circumstances of the fifth year of war the general health record of the town must give considerable satisfaction. Births continued to increase to 2,894 compared with 2,607 in the previous year and 2,289 in 1938. Deaths numbered 2,226 compared with 2,324 in the previous year and 2,235 in 1938. The excess of births over deaths was 668. The number of phthisis deaths fell to 62 compared with 79 in the previous year and 75 in 1938. Infectious disease rates were very low. There were only five Diphtheria deaths.

The Infant Mortality rate of  $57 \cdot 4$  Infant deaths per 1,000 live births was an increase on the rate of 50 for the previous year. Similarly, the still-birth rate showed an increase on the 1943 rate. There is room for a considerable reduction in the number of stillbirths and infant deaths. The number of Cancer deaths remains high compared with the number of Cancer deaths in past years. Forty years ago, 133 Cancer deaths were recorded in Bolton. In 1944, the number recorded was 308.

The number of cases of Venereal Disease treated continues to increase. Regulation 33B has been of limited value in tracing contacts because the information supplied is often insufficient to identify the person concerned.

Hospital beds were reserved in Townleys Hospital during the year for the treatment of Service cases. There has been a corresponding shortage of beds for the civilian population. Hospital treatment has not been immediately available for many older and chronic patients. Considerable unavoidable hardship resulted.

The arrangements set up under the Bolton Clinical Laboratories were terminated at the end of the year at the request of the Bolton Royal Infirmary.

I would like again to record my sincere appreciation of the encouragement and support given by the Chairman and Members of the Committee, and to the Staff of the Public Health Department in all the difficulties of war-time administration.

#### I am, Ladies and Gentlemen,

Your obedient Servant,

#### R. M. GALLOWAY,

Medical Officer of Health and School Medical Officer.

The halant Mortality rate of 57.4 Iniant destits per 1,000 less kirths was an increase on the rate of 50 for the previous year. Similarly, list still-birth rate showed an increase on the 1043 rate There is seens for a considerable reduction in the musiker of sullbirths and infant destite. The number of Cancer destite remains high compared with the number of Cancer destite in part years forty years ago, 133 Cancer destite were recorded in Bolton. In 1044, the number recorded was 308.

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## SUMMARY OF STATISTICS. 1944.

#### COUNTY BOROUGH OF BOLTON.

\_\_\_\_\_

Position Lat. 53° 35' N., Long. 2° 27' W.
Elevation above sea level 230-ft. to 1,450-ft.
Geological Formation : Boulder Clay and Sand over Coal Measures.
Rainfall (Av. 1887-1944, 42.685") 50.512"
Area in Acres (Land and Inland Water) 15,280
Population (Census 1921) 178,683
,, (Census 1931) 177,250
,, (Estimated Civilian Population, 1944) 153,940
Persons per acre 10.07
Inhabited Houses (Census 1921) 41,825
,, ,, (Census 1931) 46,618
Private Families or Separate Occupiers (Census 1921) 42,635
", ", ", ", (Census 1931) 47,706
New Houses Certified 1944 1
Estimated No. of Houses in the Borough at 31st
December, 1944 53,078
Rateable Value at 1st November, 1944 £1,137,946
Sum represented by a Penny Rate (1943-44) £4,300
Births 2,894
Birth-rate (per 1,000 of population) 17.17
Deaths 2,226
Death-rate (Crude) (per 1,000 of population) 14.46

## SUMMARY—Continued.

Still-Births	Births					126
Still-Birth Rate (per 1,000	total®Bi	rths)			mil	41.7
Average Death-rate (1935-	1944)					14.3
Heart and Circulation Deat	h-rate		S	·		3.8
Cancer Death-rate	dist di alc					2.0
Respiratory Death-rate						1.6
Phthisis Death-rate						.53
Infantile Mortality (Deaths	under or	ne year	per 1	,000		
live births)						57.4
Diarrhœa Death-rate (Deat	hs unde	r two	years	per		
1,000 live birth	(s)					4.1
Puerperal Death-rate (per	1,000 to	tal bir	ths)			3.31

## ENGLAND AND WALES :--

Birth-rate (per 1,000 of mid-1939 population)	 17.6
Death-rate (per 1,000 of mid-1939 population)	 11.6
Infantile Mortality (Deaths under one year per 1,000 live births)	 46
Diarrhœa and Enteritis (under two years), Death-rate per 1,000 live births	 4.8

.

#### STATISTICS.

#### Births.

There were 2,894 live births to Bolton residents in 1944, 1,545 being males and 1,349 females. 2,729 of these births were legitimate and 165 illegitimate. 980 births occurred to Bolton residents in Townleys Hospital, 442 in Haslam Maternity Home, and 334 in Haver-croft Maternity Home. The birth-rate per 1,000 of the population was  $17 \cdot 17$ .

#### Still-births.

The number of still-births in Bolton in 1944 was 126, giving a still-birth rate of 41.7 per 1,000 total births.

#### Deaths.

Bolton had 2,226 deaths (1,090 males, 1,136 females) in 1944, giving a death-rate of  $14 \cdot 4$  per 1,000 of the population.

During the year, 613 persons, whose usual place of residence was in the area of this county borough, died outside the borough; of these, 493 died in Townleys Hospital or Fishpool Institution and 45 died in Mental Hospitals.

Non-residents who died in the area numbered 129, of whom 107 died in Bolton Royal Infirmary.

177 Bolton residents died in Bolton Royal Infirmary.

#### SUMMARY OF THE PRINCIPAL CAUSES OF DEATH, 1944.

	No. of Deaths	Per cent. of total Deaths
INFECTIOUS AND PARASITIC DISEASES	 146	6.558
Measles	 5	· 224
Diphtheria	 5	· 224
Influenza	 24	1.078
Pulmonary tuberculosis	 62	2.784
Other forms of tuberculosis	 21	$\cdot 943$
Syphilis	 15	$\cdot 673$
Other infectious and parasitic diseases	 14	$\cdot 628$

Functional super-	No. of Deaths	Per cent. of total Deaths
CANCER AND OTHER TUMOURS	308	13.836
Cancer	296	$13 \cdot 297$
Tumours (non-malignant or undetermined)	12	· 539
RHEUMATISM, DISEASES OF NUTRITION, ETC	35	1.572
Rheumatic fever	3	· 134
Chronic rheumatism, osteo-arthritis, etc	5	· 224
Diabetes	20	· 898
Diseases of Thyroid	5	· 224
Other diseases	2	· 089
Destroyed on the Brook top Brook Bonut		
DISEASES OF THE BLOOD AND BLOOD FORMING	07	1.010
ORGANS	27	1.212
Anæmias	22	· 988
Leukæmia, aleukæmia	2	· 089
Other diseases	3	·134
DISEASES OF THE NERVOUS SYSTEM AND SENSE		
Organs	330	14.824
Meningitis	3	·134
Convulsions in children under 5 years of age	9	· 404
Cerebral hæmorrhage	218	9.793
Cerebral embolism and thrombosis	78	$3 \cdot 504$
Mental disorders and deficiency	1	· 044
Epilepsy	6	· 269
Other diseases	15	· 673
Drop Long on the Consult Long Constant	600	07 400
DISEASES OF THE CIRCULATORY SYSTEM Heart diseases	603	27.133
	551	24.750
Arterio-sclerosis	38	1.707
Gangrene	4	·179
Other diseases	10	· 449
DISEASES OF THE RESPIRATORY SYSTEM	265	11.904
Bronchitis	142	6.379
Pneumonia	88	3.953
Pleurisy	3	· 134
Congestion of lungs, etc	11	• 494
Asthma	9	• 404
Other diseases	12	. 539
Other diseases	12	000

and the stand	No. of Deaths	Per cent. of total Deaths
DISEASES OF THE DIGESTIVE SYSTEM	80	3.593
Ulcer of the stomach or duodenum	16	.718
Diarrhœa and enteritis	19	· 853
Appendicitis	7	· 314
Hernia and intestinal obstruction	18	· 808
Cirrhosis of the liver	4	$\cdot 179$
Diseases of the gall bladder and ducts	5	· 224
Other diseases	11	· 494
DISEASES OF THE URINARY AND GENITAL		
Systems	87	3.908
Nephritis	52	$2 \cdot 336$
Diseases of the prostate	23	1.033
Other diseases	12	· 539
THE PUERPERAL STATE	10	· 441
DISEASES OF THE SKIN AND CELLULAR TISSUE	5	· 224
Congenital Malformations	28	1 · 257
DISEASES OF EARLY INFANCY	72	3.234
Congenital debility	3	·134
Premature birth	57	$2 \cdot 560$
Injury at birth	7	·314
Other diseases	5	· 224
Old Age	153	6.873
DEATHS FROM VIOLENCE	72	3.234
Suicide	13	· 584
Accidents	58	$2 \cdot 605$
Other violent deaths	1	·044
MISCELLANEOUS CAUSES	5	· 224

#### Deaths from Puerperal Causes.

Maternal mortality is the number of deaths of women classed to pregnancy and child-bearing. It is expressed as the rate per 1,000 births (live and still), and is sub-divided into the deaths due to puerperal sepsis, including septic abortion, and the deaths due to all other causes arising from pregnancy and the puerperium.

There were 10 deaths from puerperal causes in 1944, giving a maternal mortality-rate of  $3 \cdot 31$ . The rate for England and Wales was  $1 \cdot 93$ .

10

	11 Deaths	BOLTON Rate per 1000	ENGLAND & WALES Rate per 1000
Puerperal sepsis	3	total births	total births
Other puerperal causes	7	1.11	1.59
Total	10	1.11	2.01

In addition to the 10 deaths directly due to pregnancy and childbearing, there were two deaths where pregnancy was a contributory cause. The deaths were assigned to (1) Broncho-pneumonia, and (2) Lobar Pneumonia.

#### Death-rate of Infants under One Year of Age.

The death-rate of infants is expressed as the number of deaths under one year per 1,000 live births, and is called the infantile mortalityrate. There were 166 such deaths during the year.

Bolton's infant mortality-rate for 1944 was  $57 \cdot 4$ . The figure for England and Wales was 46, the lowest on record.

Of Bolton's 2,894 live births, 2,729 were legitimate and 165 illegitimate.

The infantile mortality amongst the legitimate children was  $54 \cdot 9$ , and amongst the illegitimate 97.

#### Deaths under Four Weeks.

The part of the infantile mortality which occurs in the first four weeks of life is called the neo-natal mortality. There were 34.5 deaths of infants under 4 weeks per 1,000 live births.

CAUSES OF DEATH	0—7 days	8—14 days	15-21 days	22—28 days	Total under 29 days
Prematurity	32	9	7	3	51
Congenital Malformations	12	1	3	1	17
Birth Injuries	4	2	1		7
Pneumonia	-	1	2	3	6
Congenital Debility	2	1111	2	1	5
Atelectasis	3	-	-	1	4
Diarrhoea and Enteritis			1	2	3
Congenital Syphilis		2			2
Other Diseases	1	2		2	5
Totals	54	17	16	13	100

The causes of death during the first four weeks of life were as follows :---

#### GENERAL PROVISION OF HEALTH SERVICES.

#### LABORATORY FACILITIES.

The Laboratory facilities were provided by the Bolton Clinical Laboratories. This combined service was controlled by a Joint Committee with five representatives from the Royal Infirmary and five from the Council which administered all the services in Bacteriology and Pathology for the Royal Infirmary and the Local Authority. It employed two whole-time Pathologists and a staff of technicians in the laboratories of the Royal Infirmary and Townleys Hospital. During the year the Royal Infirmary gave notice to the Council terminating the agreement and the Bolton Clinical Laboratories ceased functioning as a Joint Service in December, 1944.

501 <sup>5</sup> but 6 bundles	Bolton Royal Infirmary Laboratory	Townleys Hospital Laboratory	Borough Isolation Hospital Laboratory
Agglutination .	600	262	The state of the state of the
Bacteriological .	4608	1938	1254
Haematological .		1561	
Blood Examinations	4976	1368	
Plasma Preparation	250	a outration and	to magaze
Cerebro Spinal Fluid	1 314	143	Str. 310 Idealoga
Faeces	615	82	pursing balances
Gastric Analysis .	3888	741	Ellisteness o
Histology	1420	416	Inthe approximation
Inoculations	353	73	10000
Urines	4089	2181	21103
Pregnancy Tests .	185		Premarkarity
Post Mortems .	195	21	Coline Internation
Various	81	21	Birth Injance
Totals .	25314	8807	1254

**EXAMINATIONS CARRIED OUT DURING 1944.** 

The figures for the Bolton Royal Infirmary Laboratory include various specimens from Townleys Hospital, the Borough Hospital, and from General Practitioners in relation to infectious diseases. They also include 407 sputa from the Dispensary for examination for Tuberculosis and 288 milks for the inoculation test for Tuberculosis. Eleven of the milks gave positive results for Tuberculosis.

Wassermann reaction		1	3605 (including	g 1020 Bloo	Blood	
						Donors).
Kahn test				74		
Gonorrhoea	: 002					
Microsc	opical	test		10		

Complement fixation test 649

Medical Officers of the Venereal Diseases Department in the course of routine clinical work examined 2,755 smears for the gonococcus and 30 slides by dark ground illumination for syphilis.

#### PROFESSIONAL NURSING IN THE HOME.

The Bolton District Nursing Association provides nursing in the home for all cases of illness other than certain infectious diseases and maternity nursing.

During the year, 1,946 cases were nursed, and these received a total of 59,800 visits. The nurses were also present at 80 operations.

The Bolton Corporation makes an annual grant of  $\pounds 400$  to the funds of the Association. The Public Health Committee pays for any home nursing of the following diseases: puerperal pyrexia, measles, whooping cough, epidemic diarrhœa, ophthalmia neonatorum, tuber-culosis and influenzal pneumonia.

#### Hospitals.

THE BOLION ROYAL INFIRMARY.

During the year under review the number of cases admitted was 4,376, of whom approximately 40 per cent. were from outside the Borough of Bolton. In addition, 14,351 cases were dealt with as out-patients and 12,606 cases were received into the casualty department. At the end of the year there were 894 patients on the waiting list for admission.

The Edmund Potter Hospital, an auxiliary to the Bolton Royal Infirmary, has 43 beds for females. All the patients who are admitted are sent from the Bolton Royal Infirmary for convalescence. 793 patients were admitted during the year. The Blair Convalescent Hospital, Bromley Cross, is a voluntary institution with 42 beds for male patients only. 522 cases were admitted in 1944.

#### TOWNLEYS HOSPITAL.

The following statistical return relates to the year ended 31st December, 1944 :---

Total No. of admissions (including infants born in	and the second
hospital)	6,070
No. of women confined in hospital	1,614
No. of live births	1,561
No. of stillbirths	78
No. of deaths among children under 4 weeks of age	
(born in hospital)	76
Total No. of deaths among children under 1 year	107
No. of maternal deaths among women admitted to	
hospital for confinement	12
Total No. of deaths	562
Total No. of discharges (including infants born in	
hospital)	5,629
No. of cases whose total stay was for the following	
periods :—	
(a) Under 4 weeks	4,796
(b) 4 weeks and under 13 weeks $\dots$ $\dots$	813
(c) 13 weeks or more	241
No. of beds occupied (excluding cots in maternity wards) :	
(a) Average during year	379
(b) Highest (22nd March, 1944)	508
(c) Lowest (10th June, 1944)	231
No. of operations under general anæsthetic	832
Ante-natal Clinic :—	The Ed
Total No. of expectant mothers seen	1,738
A Service of the serv	9,886
No. of attendances	9,000

DISEASE GROUPS		Children (under 16 years of age)		Men and Women	
	Dis- charged	Died	Dis- charged	Died	
A. Acute infectious disease (1)	7	1	7		
B. Influenza (2)		makere	10-bil		
C. Tuberculosis :	126.0				
Pulmonary	_		13	12	
Non-pulmonary	-	1	3	4	
D. Malignant disease		_	52	67	
E. Rheumatism :	definition of				
(1) Acute rheumatism (rheumatic fever)	6-1				
together with sub-acute rheumatism	1,101				
and chorea	10	100	13	2	
(2) Non-articular manifestations of so-	-0				
called "rheumatism" (muscular	199966				
rheumatism, fibrositis, lumbago and					
sciatica)	8	•	4	-	
(3) Chronic arthritis	5		12		
Voncent Jacons		2	15	2	
. Puerperal pyrexia:	-	-	10	-	
(a) Women confined in the bespitel	11. 1917		7	1.1.1.1.1	
(1) Other second	12 11	1300	2		
4. Other diseases and accidents connected with		-	-		
3 . 1. 11. 11. 1	and and and		521	11	
. Mental diseases :			021		
(a) Cavila Domentia	-		2		
	Terr		-		
Sanila dagan (2)	12.00	The seal	69	66	
7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6		155	2	
Accidental injury and violence (4)	0		100	4	
In respect of cases not included above :	125500 F	8	1.1.1.1	No. Contra	
. Disease of the Nervous System and Sense Organs	41	8	146	42	
	314	10	215	28	
	10	11	191	174	
11 11 an entre of a grant of the tree	72	21	197	8	
,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	10	21	187	26	
		3	35	20	
2. ", ", Skin	56	0	00	1	
			1568		
from Maternity Wards and not ( Mothers	1440		1000	_	
included in above figures Infants	1446	1 100	1 Deser		
Any persons not falling under any of the above	54	50	176	5	
headings	54	.58	170	0	
	2039	115	3590	447	

Classification of In-Patients who were Discharged from or who Died in Townleys Hospital during the year, including Service Patients of the Allied Forces and Prisoners of War.

- (1) Includes—with the exception of Acute Primary and Influenzal Pneumonia, Tuberculosis, Puerperal Pyrexia—all generally notifiable diseases, together with Measles, German Measles, Chickenpox, Whooping Cough and Mumps. Cases of Influenzal Pneumonia, Tuberculosis, Puerperal Pyrexia, and Acute Primary Pneumonia are recorded respectively under Groups B, C, G and M. Cases of Encephalitis Lethargica are entered under Group A if acute and under Group L if chronic.
- (2) Includes Acute Influenzal Pneumonia.
- (3) Confined to cases and deaths in which no more specific diagnosis was practicable.
- (4) Includes suicides, attempted suicides and poisoning cases.

## MATERNITY AND CHILD WELFARE.

#### Midwifery and Ante-Natal Work.

#### 1-DOMICILIARY.

The following figures give a statistical summary of the work in relation to domiciliary midwifery for the year :---

(a) Ante-natal clinics—Public Health Department (2 weekly).
 426 expectant mothers attended for the first time. The total attendances were 1,292.

71 X-ray examinations were made.

(b) Confinements conducted by midwives.

1,125 confinements were conducted by midwives.

(c) Confinements conducted by medical practitioners.

In addition to the 266 cases where practitioners were called in by the midwives, the doctors conducted approximately 236 confinements in patients' homes.

The following table gives particulars of the domiciliary midwives' work during the year :---

No. of midwives who have practised			29
No. of cases attended			1,125
Average No. of cases per midwife			47
No. of calls for medical aid			266
Per cent. of cases in which medical aid wa	s sou	ght	23.6%
No. of midwives on the register at the be	ginni	ng of	
the year			29
No. who ceased to practise in Bolton			3
No. on the register at the end of the year			26

In addition to the above, the midwives attended 236 cases as maternity nurses.

The following 328 notifications were received from domiciliary midwives in accordance with the regulations of the Central Midwives Board :—

Medical assistance		 	 266
Still-births		 	 29
Artificial feeding		 	 31
Death of mother or child	,	 	 2
Liable to be a source of infec	ction	 	 -

When a family is not eligible for maternity benefit under the National Health Insurance Acts and the family income falls below a scale approved by the Council, the Public Health Committee pay the midwife's fee for her work at a confinement. During the year 212 such fees were paid.

Home helps were provided in 167 instances. In 76 cases part of the fees were recovered and in 2 cases the whole of the fees were recovered.

#### MUNICIPAL MIDWIVES.

During the year, the nine midwives appointed attended 657 cases, 620 as midwifery cases and 37 as maternity cases, or an average of 73 cases per midwife.

The midwives paid 14,329 ante-natal and post-natal visits to their patients during the year.

#### 2-INSTITUTIONAL MIDWIFERY.

#### (a) TOWNLEYS HOSPITAL.

Three ante-natal clinics are held weekly: During the year, 1,738 patients attended the clinics, 1,404 of whom were Bolton cases.

The following particulars relate to the maternity cases admitted during 1944 from Bolton and from the county areas served. Approximately 70 per cent. of the cases were from Bolton.

1.	No. of maternity beds	99
2.	No. of beds, included in above, allocated to, and	
	reserved for, expectant mothers in need of	
	hospital treatment	27
3.	No. of cases admitted	1,942
4.	No. of women treated in the beds shown against	
	item 2	515
5.	Average duration of treatment of expectant	
	mothers in the beds shown against item 2	7.68 days
6.	Average duration of stay of cases in the lying-in	and a state of the
	Wards	12.16 days
7.	No. of cases notified as *Puerperal pyrexia	10
	*i.e., rise of temperature to 100.4° F. for 24 hour	rs,
	or recurrence within that period.	
8.	No. of cases of pemphigus neonatorum	2

9.	No. of infants not entirely breast fed whilst	t in.	
	hospital	B	263
10.	No. of cases of ophthalmia neonatorum	1.1000	Nil
11.	No. of maternal deaths		11
12.	No. of infant deaths :		
	(a) Stillborn		78
	(b) Within 10 days of birth		49

#### (b) HASLAM MATERNITY HOME.

Three Ante-natal Clinics are held weekly. During the year, 386 patients attended for the first time. The total number of attendances was 3,193. The X-ray examinations numbered 44.

The following table gives particulars of all cases admitted to the Home in 1944 :---

No. of beds in the H	Iome					23
No. of cases admitte	ed					454
Average duration of	f stay in	days				12.69
No. of cases deliver	ed by :-	-				
(a) Midwives						352
( <i>h</i> ) Doctors						-98
No. of cases in which	ch medic	al assis	tance	was so	ught	
by the midwife					an	57
No. of cases notified	d as Pue	rperal	Pyrex	ia (i.e.,	rise	
of temperature	to 100.	4°F. fo	or 24 1	nours o	r its	
recurrence with	in that	period)				Nil
No. of cases of pem	phigus n	neonato	rum			2
No. of infants not en	ntirely b	reast fe	d whil	st in th	e Home	14
No. of cases notified	d as oph	thalmia	a neon	atorum		1
No. of maternal dea	aths					1
No. of infant death	s :—					
(a) Stillborn						11
(b) Within 10	days of	birth				4

#### (c) HAVERCROFT MATERNITY HOME.

Two Ante-natal Clinics are held weekly. During the year, 275 patients attended for the first time. The total number of attendances was 1,625. The X-ray examinations numbered 23.

The following table gives particulars of all cases admitted to the Home in 1944 :---

No. of beds in the Home			1	arbine o	17
No. of cases admitted			·		339
Average duration of stay in	n days				$13 \cdot 34$
No. of cases delivered by :-	_				
(a) Midwives				/ hatol	243
(b) Doctors					92
No. of cases in which medi	cal assis	stance	was so	ught	
by the midwife					82
No. of cases notified as Puer	rperal P	yrexia	(i.e., ri	se of	
temperature to 100.4	°F. for	24 ho	urs, o	r its	
recurrence within that	period)				3
No. of cases of pemphigus	neonato	rum			Nil
No of infants not entirely h	reast fe	d while	t in the	Home	40

.

19

temperature to roo + 1. for 24 nours, or its	
recurrence within that period)	3
No. of cases of pemphigus neonatorum	Nil
No. of infants not entirely breast fed whilst in the Home	40
No. of cases notified as ophthalmia neonatorum	1
No. of maternal deaths	Nil
No. of infant deaths :	
(a) Stillborn	11
(b) Within 10 days of birth	6

DENTAL TREATMENT FOR EXPECTANT MOTHERS.

Nineteen expectant mothers who could not afford to make their own arrangements were treated by private dentists on behalf of the Public Health Department. Six dentures were provided. The reduction in the amount of this work is entirely due to war conditions.

#### HEALTH VISITORS.

The following table shows the work done by the Health Visitors :--

#### VISITS BY HEALTH VISITORS.

Primary birth enquiries			 2,854
Visits to children, 1-5 years			 7,549
Primary visits to expectant mothe	rs		 437
Re-visits to infants under 1 year			 6,198
Re-visits to expectant mothers			 271
Visits to puerperal pyrexia cases			 7
Visits to ophthalmia cases		241.11	 25
Stillbirth enquiries			 121
Death enquiries made (under one y	year of	f age)	 149
,, ,, ,, (maternal)			 Nil

Total Visits		 		t	19,079
Miscellaneous visits		 ······	1told	b	1,433
Visits—Children Act		 6	dmitteo		10
Visits to midwives' ho	ouses	 		1.100	25

#### WAR-TIME NURSERIES.

At the end of the year there were seven War-time Nurseries in the Borough, finding accommodation for the following number of children :—

				By Day	By Night
Arkwright Street	reier	Indulat		44	Net of a
40, Chorley New Road				35	to to and
"Vesperholme "				28	16
"Woodlands"				44	29
Newport Street		ind.in		66	(8) 1
" Park House "				49	30
Shaw Street			3	50	INT OF THE
id not the state of					NUNCTION
Totals				316	75

MASSAGE AND ARTIFICIAL SUNLIGHT TREATMENT FOR INFANTS.

Treatment is provided for any debilitated and rickety children who are in attendance at the Child Welfare Centres. The treatments are given in the Massage and Light Clinic in the Public Health Department.

The number of massage cases treated in 1944 was 121, and these received a total of 1,885 treatments.

The number of light cases treated in 1944 was 353, and these received a total of 2,623 treatments.

#### SANITARY INSPECTION.

The nature and extent of the work done by the Sanitary Inspectors is shown in the following statement :—

INSPECTIONS		 	 	1944. 27,080
ACTION TAKEN.				
Verbal notices Informal notices ser	ved or	 written	 "Iloch	698 1,669
Legal notices served	1	 	 	347
				2,714

# RESULT OF ACTION.

#### DWELLINGS.

Repairs to floors, walls, ceilings, roofs, spouting		1,445
Additional windows provided		13
Windows repaired or made to open		226
Sinks provided		15
Houses re-decorated		30
Verminous houses disinfested		43
DRAINAGE, CLOSETS, ASHPITS, ETC.		
Drains cleansed or repaired	1	336
· Yards drained, paved or repaired		8
Additional W.C's provided	2	11
W.C's reconstructed or repaired		115
Flushing cisterns provided or repaired		91
Closets converted		39
Ashpits abolished		14
Dustbins provided		104
VARIOUS.		
Smoke nuisances abated		1
Nuisances from animals abated		_
Offensive accumulations removed		60
Improvements in factories, shops and food premi	ises	103
Cowshed or dairy improvements		21
Miscellaneous		573
		3,248

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#### DISINFECTIONS.

			TOIT
Houses disinfected	 	 	 1,170
Articles disinfected	 	 	 7,481*
Articles destroyed	 	 	 64

1944

\*Includes fire-watchers' bedding.

#### PLACES UNDER INSPECTION.

Common lodging-houses					9
Houses let in lodgings					111
Factories without mecha	nical pow	er			201
Factories with mechanica	al power	1.18	309		875
Factory chimneys					187
Bakehouses					382
Fish friers' premises					180
Premises where food is p	repared				297
Outworkers' premises					9
Offensive trades					19
Slaughterhouses (in actu	al use)				2
Cowsheds					263
Milk shops					732
Theatres, cinemas, etc.					30
Public sanitary convenie	nces				31
Travelling vans				//	59

#### Common Lodging-houses.

The number of registered common lodging-houses in Bolton at the end of the year was 9. Eight of these are used by males only and accommodate a total of 431 men. The other is used exclusively by women and accommodates 40.

## LEGAL PROCEEDINGS DURING 1944.

DATE	2SI	OFFENCE	RESULT
7/ 2/44	Failing to ation as	ORDER, 1941, ART. 2 (2) : o submit to a medical examin- required by a notice served he Order	Fined £5/0/0.
7/ 2/44	Failing examina	ORDER, 1941, ART. 2 (2) : to submit a child for medical ation, as required by a notice under the Order	Fined $f_2/0/0$ .
7/ 2/44		do.	Fined $\pounds 2/0/0$ .
7/ 2/44		do.	Fined $f_2/0/0$ .
7/ 2/44	Failing to ation as	ORDER, 1941, ART. 2 (2) : o submit to a medical examin- required by a notice served he Order	Fined £10/0/0.
7/ 2/44		do.	Fined $f_2/0/0$ .
7/ 2/44	Failing to	HEALTH ACT, 1936, SEC. 83 : o cleanse a house which was nd verminous	Fined £5/0/0.
9/ 3/44	78 (2)	D DRUGS ACT, 1938, SEC. : ing a sampling officer	Fined $f_{15/0/0}$ .

Legal Proceedings during 1944-continued.

DATE	OFFENCE	RESULT
9/ 3/44	FOOD AND DRUGS ACT, 1938, SEC. 3 (1): Selling whisky not of the nature, substance or quality demanded	Fined £10/0/0. with 10/6 costs.
9/ 3/44	do.	Fined £10/0/0 with 10/6 costs:
16/ 3/44	PUBLIC HEALTH ACT, 1936, SEC. 92: Premises in such a state as to be prejudicial to health and a nuisance	Adjourned until April 6th—Work completed by owner 5/4/44. Summons with- drawn on payment of costs.
16/ 3/44	do.	do.
16/ 3/44	do.	do,
16/ 3/44	do.	do.
16/ 3/44	do. monimum ba	do.
30/ 3/44	FOOD AND DRUGS ACT, 1938, SEC. 3 (1): Selling milk not of the nature, sub- stance or quality demanded	Fined £5/0/0, with 10/6 costs.
30/ 3/44	do.	do,

INSPECTION AND SUPERVISION OF FOOD.

## Legal Proceedings during 1944—continued.

DATE	Offence	Result
	and during 1944	uinoseib "
2/11/44	FOOD AND DRUGS ACT, 1938, SEC.	inne · ane
	3 (1) : •••••••••••••••••••••••••••••••••••	nemos no
	Selling baking powder not of the	Fined $f_{1/0/0}$ , with
	nature, substance or quality	10/6 costs.
	demanded	initarcesib
9/11/44	do.	Fined $f_{10/0/0}$ with
	Permeters 1944	10/6 costs.
	D D 1 1000 C	
16/11/44	FOOD AND DRUGS ACT, 1938, SEC.	Number of cons pro
	3 (1):	7. 1 (10/0/0
. 732	Selling milk not of the nature, sub-	Fined $f_{10/0/0}$ with
	stance or quality demanded	$f_1/1/0$ costs.
16/11/44	do.	Fined $f_{10/0/0}$ with
10/11/44	de la contra do.	$f_{1/1/0}$ costs.
	icences were granted under their Ord	£1/1/0 COStS.
16/11/44	do.	Fined $f_{10/0/0}$ with
	co to use the design ition " Tuberchim	$f_1/1/0$ costs.
		~

### INSPECTION AND SUPERVISION OF FOOD.

#### MILK.

#### The Milk and Dairies Order, 1926.

Cowkeepe	rs on register, December, 1943				110
,,	added to register during 1944	ŧ			
,,	discontinued during 1944		•		-
,,	on register, December, 1944				110
Cowsheds	on register, December, 1943				262
,,	added to register during 1944				1
	discontinued during 1944		•		MARTIN
,,	on register, December, 1944			19	263
Number o	f cows provided for in the cows	sheds, 19	44		2,970
Average n	umber of cows kept during the	year	. 61		2,787
Number o	f dairies and premises of milk	purveyor	s .		732

## Milk (Special Designations) Orders, 1936 and 1938.

The following licences were granted under these Orders during 1944 :---

to use the designation "Tuberculin	
3	Tested " .
cence to use the designation	** *
use the designation "Tuberculin	
<del></del>	Tested "
o use the designation "Accredited" 15	Producer's licent
cence to use the designation	Supplementary "Accredited
use the designation "Pasteurised" ct of a Pasteurising establishment). 1	
cence to use the designation	Supplementary
3	" Pasteurise

#### MEAT.

The following table shows the number of animals slaughtered and inspected at the public abattoirs and private slaughterhouses in the Borough, with the diseased conditions grouped under two heads :—

- (1) Carcases affected with disease other than tuberculosis; and
- (2) Carcases found to be affected with tuberculosis only.

#### Carcases Inspected and Condemned.

e chronghout the year.	Cattle excluding Cows	Cows	Calves	Sheep and Lambs	Pigs
Total number killed and inspected	946	8,765	4,204	12,583	3,190
All Diseases except Tuberculosis :	W. But	a usar	785	STATES	a i
Whole carcases condemned	C restrict	25	33	. 4	5
Carcases of which some part or organ was condemned	19	1,917	2	107	8
Percentage of the number inspected affected with disease other than tuber- culosis	2.0	22.15	0.83	0.88	0.41
Tuberculosis only : Whole carcases condemned	1	232	10	. 1	6
Carcases of which some part or organ was condemned	25	1,974	1		65
Percentage of the number inspected affected with tuber- culosis	2.74	25.16	0.26	0.008	2.22

#### WATER SUPPLY.

The Water Supply of the Borough is derived from moorland drainage grounds which have been cleared of farms, and with one or two exceptions, of public footpaths. The water has generally been of an excellent quality and has been adequate in quantity for all purposes. The raw and the filtered waters were examined chemically once a month and bacteriologically once a week throughout the year.

The number of water examinations made during the year was 705. Of this number, 237 were samples of the raw waters and 237 of filtered and treated waters sampled at the filter stations. The results of the examinations are as follows :—

#### 1. BACTERIOLOGICAL.

(a) AGAR COUNT. (Total number of organisms of all types growing on Agar per ml. at 37°C.)

No. of Samples	Average Agar Count
237 Raw Waters	38
237 Filtered Waters	2
me a fee see blaid	ei - is bauma

(b) B. Coli.

i statu		Raw Wat	ers	Filt	tered Wat	ers
No. of B. Coli per 100 mils.	Total No.	Faecal	aerogenes cloacae	Total No.	Faecal	aerogenes
0	4	_	_	234	-	-
1	5	1	4	2	1	1
2	12	4	8	0	0	0
4	13	4	9	1	0	1
5	4	0	4	0	0	0
6	9	2	7	0	0	0
8	3	0	3	0	0	0
9	35	24	11	0	0	0
10	2	2	0	0 '	0	0
20	43	25	18	0	0	0
40	33	25	8	0	0	0
60	28	22	6	0	0	0
80	20	18	2	0	0	0
100 +	26	24	2	0	0	0

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#### Standards adopted-0 Good

1-2 Tolerable

2-4 Unsatisfactory

above 4 Bad

(c) CL. WELCHII.

CALCUS D	No. of samples	Positive in 50 mils
Raw waters	237	42
Filtered waters	237	0

#### 2. CHEMICAL.

Examinations were made of 57 samples of raw water and 57 samples of filtered water. The following table shows the averages of the various findings :—

		Raw Waters Parts per 100,000	Filtered Waters Parts per 100,000
Total Solids		9.48	9.36
Free Ammonia		0.002	0.001
Albuminoid Ammonia		0.002	0.001
Nitrogen as Nitrates		0.008	0.006
Nitrogen as Nitrites		none	none
Chlorine as Chlorides		1.18	1.17
Acidity		none	none
Oxygen absorbed in 3 hrs. at	15.5°C.	0.136	0.073
Poisonous Metals (Lead, etc.	c.)	none	none
Suspended Matter		trace	none
Odour		none	none
Total Hardness in Degrees		3.10	$3 \cdot 10$

The Waterworks Engineer states that the water showed no liability of contamination by lead arising from plumbo-solvency. The results of analyses for plumbo-solvency are as follows :—

	]	No. of Samples	Plun	ibo-solv	vency
Raw Waters		237	0.09 pa	arts pe	er 100,000
Filtered Waters		237	0.07	,,	,,

No action was required to be taken in respect of any form of contamination. No water was supplied to dwelling houses by means of stand pipes.

#### NOTIFIABLE INFECTIOUS DISEASES.

#### PREVALENCE AND MORTALITY.

Below are shown the number of cases of notifiable diseases notified in Bolton in 1944 and the number of deaths resulting from each of these notifiable diseases.

## NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1944.

			Total Cases	Total
Disease			Notified.	Deaths.
Smallpox			 _	 -bil -line
Scarlet Fever			 410	 ornel
Diphtheria			 142	 5
Enteric Fever (inclu	iding			
Paratyphoid)			 -	 NI CTRONE
Relapsing Fever (U	ndular	nt)	 -	 interesting and a
*Pneumonia			 97	 88
Puerperal Pyrexia			 9	 -
Cerebro-spinal Feve	r		 8	 1
Acute Poliomyelitis			 1	 1
Acute Polioencepha	litis		 -	 
Encephalitis Lethar	gica		 -	 4
Dysentery			 2	 1
Ophthalmia Neonat	orum		 13	 -
Erysipelas			 33	 1
Malaria			 1 10 - 17	 o lea <u>fund</u> ía a
Measles			 1,076	 5
Whooping Cough			 214	 1

\*The cases notified are Acute Primary and Acute Influenzal, out the deaths include all forms of Pneumonia.

#### Deaths from Infectious Diseases.

The deaths in Bolton attributed to the various epidemic diseases are shown in the following table for the years 1935 to 1944:-

	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	
Smallpox	-	-	-	-	-	-	-	-	-	-	
Scarlet Fever	3	1	-	3	1	-	1	1		-	
Diphtheria and Memb. Croup	5	4	23	22	11	17	16	13	6	5	
Enteric Fever			1	1		1	-	-	-	-	
Measles	6	9	4	10	3	8	3	5	4	5	
Whooping Cough	13	8	14	1	4	5	10	1	2	1	
Diarrhœa and Enteritis under 2 years of age	9	8	4	3	14	10	22	34	6	12	
Erysipelas	5	6	5	1	1	1-	_		-	1	
Puerperal Sepsis	7	1	2	4	3	4	2	_	3	3	
Cerebro-spinal Fever	1	2	2	1	6	1	6	2	4	1	
Encephalitis Lethargica	5	7	4	7	4	4	1	3	8	4	
Influenza	55	35	104	24	42	86	23	21	88	24	

#### CAUSES OF DEATH FROM EPIDEMIC DISEASES.

#### BOROUGH ISOLATION HOSPITAL-ADMISSIONS AND DISCHARGES.

			Patients s following				
No. of Patients.	Scarlet Fever.	Diph- theria.	Measles.	Pul- monary Tuber- culosis.	Other Tuber- culous Diseases.	Other Diseases.	Total.
Remaining, Dec. 31/1943 Admitted in	17	39		24	-	10	90
1944 Total No.	324	163	13	70	7	313	890
treated, 1944 Discharged	341	202	13	94	7	323	980
in 1944	307	190	5	57	8	282	849
Died in 1944 Remaining,	-	7	1	11	4	6	29
Dec. 31/1944	34	27	-	23	-	18	102

#### 31 31 BHTARD

#### DEATHS FROM CANCER, 1944.

The following table shows the age and sex distribution of all persons who were certified as having died of cancer in Bolton in 1944. The table shows also the localization of the disease.

		EX	1	4		100		경상	1.000	80	24	A	Œ	1	8.91	1/1	2	11			
LESION		EX	0 to	5 to	10 to	15 to	20 to	25 to	30 to	35 to	40 to	45 to	50 to	55 to	60 to	65 to	70 to	75 to	80 to	and	Wds
	М.	F.	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	85	dn
BUCCAL CAVITY : Mouth	5									1					1	1		1	1		
- Andrew Are allowed			!																		•
Pbarynx	. 1	-														1					-
1		1																			•
Tongue	. 8													1	1	1	2	3			
	-	1																1			-
Other Sites		-																			200
1 1 1 1 1 1	14													1	2		2	4			
TOTAL-BUCCAL CAVITY		1																1			
DIGESTIVE ORGANS : Œsophagus	6													1		4	1				
		1												1							
Stomach	35									2		3	3	5	4	4	7	6	1		100
		26										1	3	2	3	6	4	6	1		
Intestines	19										1		4	2	2	4	4		2		
and a second		23								••••		2	2	3	2	3	4	7			-
Rectum	. 21	14										2			-	8	_	1	1		
	5	14								1	1		-	4	-	1		1			
Liver		9										_		1	_	4	1.00		_		
	4	-								1						2		1			
Pancreas	1	6													2	2	2				
Other Organs	1	105									1										
	8       8       14       14       35       35       19       21       5       4       1       91																				
TOTAL-DIGESTIVE ORGANS	91	-								3	2	6	7	8	9	22	20	9	5		
	1	79								1	1	4	6	11	12	16	14	$     \begin{array}{c}         \\         \\         \\         $			

## DEATHS FROM CANCER, 1944.-continuea.

#### AGE AND SEX DISTRIBUTION AND LOCALIZATION OF DISEASE.

and the stand of the second	1		T			- 27					A	GE								
LESION	-	EX	0 to	5 to	H.	) 15 to	20 to	25 to	30 to	35 to	40 to	45 to	50 to	55 to	60 to	65 to	70 to	75 to	80 to	5 and
- Patterrortupi	М.	F.	5	10	15	20	25	30	35	40	45	50	55	60	65	70		1000		85 8
RESPIRATORY ORGANS : Larynx	5											1		1			2		1	
ALL DISCOULD BRODING	14	14									1	3		2		2				
Lungs	14	3						1	••••		-	-	-	-	-	-	1			
	19		1					-					1	3	1	2	3			
TOTAL—RESPIRATORY ORGANS		3	-					1			-	-			1	-	-		-	
FEMALE GENITAL ORGANS : Uterus		9	F	-		-		-		-			-			-	-	-	-	
					••••					1	••••	1	2			2	3			
Ovary Vulva		4										2	1	1						
	- 01	5												2		1	1	1		
FOTAL—FEMALE GENITAL ORGANS		18								1		3	3	3		3	4	1		
BREAST																				
		33		••••				1			1	2	5	1	6	5	6	2	4	
MALE GENITAL ORGANS : Scrotum	1															1				
Penis																				
Prostate	13														1	3	4	2	2	1
FOTAL-MALE GENITAL ORGANS	14														1	4	4	2	2	1
URINARY ORGANS	4														1	1	2			
CRINARY ORGANS		3														1	2	]		
SKIN	2									1							1			
		2														1		1		
OTHER OR UNSPECIFIED ORGANS	5									1				1			3			
		8				1							1	1		3	2			
TOTAL-MALES	149									6	3	10	8	13	17	32	34	15	9	1
TOTAL-FEMALES		147				1		2		2	2	9	16	16	19	29	28	18	5	
TOTAL-BOTH SEXES	2	96			-	1		2		8	5	19	24	29	36	61	62	33	14	1

## TUBERCULOSIS.

The total number of new cases notified in 1944 was 173 as compared with 131 in 1943. One hundred and thirty-six of the new cases were pulmonary tuberculosis and 37 were non-pulmonary tuberculosis.

# Age and Sex Distribution of Cases of Tuberculosis notified in Bolton in 1944 :

	Ages											-
SEX	0	1	5	10	15	20	25	35	45	55	ds	Total
	to	to	to	to	to	to	to	to	to	to	65 and upwards	1-03
	1	5	10	15	20	25	35	45	55	65	65 and upwards	
Males	_	1	_		7	11	24	16	14	16	1	90
Females	1	-	-	1	9	11	10	6	2	4	2	46
Total	1	1	-	1.	16	22	34	22	16	20	3	136

PULMONARY TUBERCULOSIS NOTIFICATIONS.

NON-PULMONARY TUBERCULOSIS NOTIFICATIONS.

2.2.2	-					Ages		22				afe)
Sex	0	1	5	10	15	20	25	35	45	55	ds l	Total
	to	to	to	to	to	to	to	to	to	to	an	and the
	1	5	10	15	20	25	35	45	55	65	65 and upwards	-10
100								•		2		
Males	1	2	5	2	2	1	1	1	1	-	-	16
Females	-	2	4	3	2	1	3	3	2	1	-	21
Total	1	4	9	5	4	. 2	4	4	3	1	-	37
10 1000			-	1					1	1	1000	Total V

### DEATHS FROM TUBERCULOSIS.

Eighty-three Bolton residents were certified as having died of tuberculosis during 1944. This compares with 90 in 1943.

Forty-six of these deaths took place in institutions.

The age and sex distribution of those who died from tuberculosis are given in these tables :---

	ing the sec	Ages											
Sex	in the	:self	5	10	15	20	35	45	55	ds	Total		
	Un	der	to	an									
Allenner	5	5	10	15	20	35	45	55	65	65 and upwards	-		
Males					1	10	10	7	13	5	46		
Females		-	-	-	1	10	1	1	2	1	16		
Total		-	-	-	2	20	11	8	15	6	62		

PULMONARY TUBERCULOSIS DEATHS.

NON-PULMONARY TUBERCULOSIS DEATHS.

Ages												
Sex		Under 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 55	55 to 65	65 and upwards	Total	
Males Females		2 2	1 1	1	2 1	2000	1 3	•1 4	-	2	8 13	
Total		4	2	1	3	P	4	5		2	21	

In 10 cases the disease had not been notified during life. Five of these cases died in institutions, and the diagnosis was made after death.

# TUBERCULOSIS DISPENSARY.

The dispensary is open every week-day (except Saturday) from 9 a.m. to 12 noon and on Monday and Friday from 2 p.m. to 5 p.m. The work done at the dispensary is shown by the following figures :---

Total attendances	2,771
Total number of patients sent for consultation	640
The results of these consultations were as follows :	
Number found to have pulmonary tuberculosis	102
Number found to have non-pulmonary tuberculosis	24
Number of cases kept under observation for	
suspected pulmonary tuberculosis	9
Number of cases kept under observation for	
suspected non-pulmonary tuberculosis	2. Telle
Number in whom no evidence of tuberculosis was	505
found	505
Number of specimens of sputum examined	407
Total number of cases on the dispensary register :	
Pulmonary tuberculosis	415
Non-pulmonary tuberculosis	206
Total	621
X-ray examinations made in connection with	0.55
dispensary work	975
Patients under treatment at the dispensary by	
artificial pneumo-thorax	32
Total number of cases on the notification register :	
Pulmonary tuberculosis	460
Non-pulmonary tuberculosis	209
Total	669
10141	000

### TREATMENT OF TUBERCULOSIS.

Two hundred and sixty-one persons applied for treatment in 1944. Two hundred and thirty-four of these were cases of pulmonary tuberculosis and 27 of non-pulmonary tuberculosis. Five cases were admitted to hospital for observation.

The treatment given was as follows :---

Residential treatment	 	 140
Domiciliary treatment	 	 118
Out-patient treatment	 	 3

No patient requiring residential treatment was refused such treatment.

The following table summarizes the residential treatment given during 1944.

Accommodation provided by Local Authority with Number of Persons Admitted for Treatment during the Year 1944.

INSTITUTION.	Beds.	Admitted during the year,	ment
Wilkinson Sanatorium	. 30	38	28
Borough Hospital	. 24	70	23
*Heswall	. 6	Indiated a	al
*Bolton Royal Infirmary	1 1 1 1 1 1	10	2
*Robert Jones and Agnes Hunt Orthopaedic			
Hospital, Oswestry		9	2
*Children's Orthopaedic Hospital, Marple	av-	3	3
*Blencathra Sanatorium, Threlkeld		- '	1
*Liverpool Sanatorium, Frodsham	langer (	4	4
*Leasowe Open-air Hospital	A transit	ton_trai	1
Crossley Sanatorium		1	_
*Baguley Sanatorium	-	3	1
*David Lewis Northern Hospital, Liverpool	-	1	
East Lancashire Tuberculosis Colony	-	-	1
Wrightington Hospital	_	1	2

\*Paid for per user.

#### Ultra-Violet Ray Treatment.

During the year, 1,334 attendances were made to the Ultra-Violet Ray Department, the majority of the cases being gland tuberculosis. Thirty new patients were referred; most of them were given ultraviolet ray treatment, and in 2 cases the Kromayer and radiant heat lamps were used.

### **Examination of Contacts.**

During the year, 51 contacts were examined at the dispensary or in the home; of these, 5 proved to be tuberculous. It is felt that by an extension of this work the aim and duty of the dispensary will be more fully discharged.

#### Treatment Allowances.

The number of patients assisted under the Ministry of Health Memorandum 266/T, in respect of which expenditure will be reimbursed by the Exchequer, is as follows :—

Maintenance Allowances	 	 	127
Discretionary Allowances	 	 	-
Special Payments	 	 	10

In addition, 218 patients were assisted by the provision of 37,925 pints of Milk and 132 lbs. of Malt and Oil, free of cost.

### VENEREAL DISEASES.

The tables on pages 39, 40 and 41 show the work carried out at the Bolton Treatment Centre.

# Return relating to all persons who were treated at the Treatment Centre at Bolton Public Health Offices during the year ended the 31st December, 1944.

	Sypl	hills	So Char	ft ncre	Gonor	rhœa	Vene undia	ion- real or ignosed tions	sigures liques	TOTALS	albarak September 19 molt	8
	м.	F.	м.	F.	м	F.	м.	¥.	м.	F	Tot	al.
Number of cases on 1st January under treatment or observation	238	273			194	142	38	80	470 (9)	495	965	(9)
Number of cases removed from the register during any previous year which returned during the year under report for treatment or observation of the same infection		8			17	7		1 A .:	27	15	42	
Number of cases dealt with for the first time during the year under report (exclusive of cases												
under Item 4) suffering from :	-								29 (2) 8	14 15	43 23	(2)
year of infection , all later stages , congenital Soft Chancre	18 6	6 25 10 	  2	···· ····	  	···· ···	  		18 6 2		$\begin{array}{r} 6\\ 43\\ 16\\ 2\end{array}$	
Gonorrhœa, 1st year of infection later Non-venereal conditions Conditions remaining		 		 	146 1 	117 2 	 233	 292	$\begin{array}{ccc} 146 & (17) \\ 1 \\ 233 & (6) \end{array}$	2	263 3 525	(17) (6)
undiagnosed at 31st December								3		3	3	
Number of cases dealt with for the first time during the year under report known to have	-	-										
received treatment for the same infection, or to have been under observa- tion, at other Centres or	101	19	-		727			-			A TOL	
Service Hospitals, or by General Practitioners approved under Ministry of Health Circular 2226	41	8			13	2	1	1	55 (30)	11	66	(30)
TOTALS OF ITEMS 1, 2, 3, AND 4	350	359	2		371	270	272	376	995 (64)	1005	2000	(64)

			Ť												
Treatment Centre	Syp	bilis	and the second second second	oft nere	Gond	orrhœa	Ven undia	Non- ereal or agnosed ditions		т	OTALS	10169			
	М.	F.	М.	F.	M.	F.	М.	F.	N	4.	F.	To	tal.		
5. Number of cases dis-							-						T		
charged after comple-			1-12	period	10.0	and and		the section			1. Carton				
tion of treatment and final tests of cure or				1		1		100			Press.		100		
after diagnosis as non-						1		4 .34			1.19	-			
venereal	. 5	4			58	52	138	297	201	(9)	353	554	1		
6. Number of cases which										01 23	12 43	1 0.16			
ceased to attend before	-							1	1			-			
completion of treatment and were, on first atten-						-						-			
dance, suffering from:									1 loves		per la	and the second			
Syphilis, primary	16	4							16		4	20			
" secondary	5	9							5		9	14			
" latent in 1st								Stern	1			-			
year of infection ,, all later stages	14								114		3 10	4 24			
,, congenital	14	6							14		6	24			
Soft Chancre									1						
Gonorrhœa, 1st year of					ATIO						12 20	Part and			
infection					52	49			52		49	101			
7. Number of cases which						1					1	1			
ceased to attend after											11 Same	1 -			
completion of treatment								- Colored			1	- : 202	11		
but before final tests of					12			1. 12				1 million			
cure	15	2			15	3			30		5	35			
8. Number of cases trans-	1.1-1								1						
ferred to other Centres or to institutions, or to care								1 181							
of private practitioners	50	9			31	11	2	3	83	(53)	23	106	(1		
9. Number of cases remain-							1			(00)			-		
ing under treatment or	200								1		A STREET	-			
observation on 31st Dec.	243	312	2		215	154	132	76	592	(2)	542	1134			
TOTALS OF ITEMS	Control of	-	1000	100	1		-		I State	1		-	1		
5, 6, 7, 8 AND 9	350	359	2		371	270	272	376	995	(64)	1005	2000	(1		
(These totals should agree with		000			0.1.			0.0	000	(0-1)	1000	-000	· ·		
those of Items 1, 2, 3 and 4)					0	-		-	122			200			
10 Number of other lowers			-		-				1		- 10	Stand Street	1		
<ol> <li>Number of attendances:- (a) for individual attention</li> </ol>								1-1-1-1			1	123 121			
	5462	8351	33		2552	3603	964	1032	9011	(125)	12986	21997	a		
(b) for intermediate treat-	010-								1.000	()			10		
ment, e.g., irrigation,										TRA DEC					
dressing	36	15			1172	1462	62	244	1270	(22)	1721	2991	C		
TOTAL ATTENDANCES	5498	8366	33		3724	5065	1026	1276	10281	(147)	14707	24988	(1.)		
11. In-patients :			-		1		-		1 Manut	nie im	1712	Inconders	T		
(a) Total number of persons												- rearing			
admitted for treatment	11							24				DL STEP			
during the year															
(t) Aggregate number of	1							12 12-12							
"in-patient days" of treat- ment given	Kan		and a												
ment given		***			***										

				¥1								
		nder year		l under years		and ur 5 yea		15 y and	vears	Tota	als	
	М.	F.	м.	F.	N	1.	F.	М.	F.	м.	F.	
Number of cases of co genital syphilis in Iten above classified accordi to age periods	1 3		10912	1	linge båb	1	2	1	odT 7	6	10	
	Miero	oscopica	1		1	s	erum			0.1	Others for	
Pathological Work :	for Syphilis	for Gonorr		Cultural for onorrhoe		for philis		for orrhoea	Cerebro spinal fluid	- diag of Ve	nosis enereal ease	
<ul> <li>a) Number of specimens examined at, and by the medical officer of, the Treatment Centre</li> <li>b) Number of specimens from patients attending at the Treatment Centre</li> </ul>	28	275	5	tion in tion in tion when the tion			laqu inni inni inni inni	s the s to con to sol				
sent for examination to an approved laboratory (if available)	relands reland	rsbenn	Dist	1		1965	into a	508	4			
Statement she durir	ng the y	ear, cl	assifi		ord	ing t	o the			tre		
ne of County or County borough (or Country in the case of persons esiding elsewhere that a England and Wales) to be inserted in these meadings.	uo uo	Blackburn Blackburn	Bury	Liverpool Manchester	Preston	Rochdale Salford	St. Helens	Warrington Wigan	Lancs. C.C.		Total	
Number of cases from each area included under the following headings in Item 3 :-	ł		No. 2 No. 2	W	Door of the second	bares bares en te		di lip di lip di lip	dication dication uns out			
Syphilis	93	(2)	1	l					37	13	1 (2	

NOTE .- Service Cases are included in the above figures and the numbers so included are shewn in brackets.

1

2

....

1 ...

1 ... ... ... ...

1 1 ... ... ... ...

2 1 ... ... 1 ...

16777 (85) 1 5 3 33 51 10 15 1 6 30 18130 7908 (62) 24988 (147)

2

528

1 104 (10)

2 141 (2)

3 282 (12)

266 (17)

927 (25)

(6)

Soft Chancre ...

Gonorrhoea ...

Non-venereal and

TOTAL

undiagnosed conditions

Total number of attendances of all patients residing in each area ...

2

159 (7) ... ... ...

382 (4) ... ...

636 (13) ... ...

### REGULATION 33B.

The effect of the Regulation is to make it an offence for any person, who has been indicated as the source of infection by two or more persons under treatment for Venereal Disease, to fail to undergo examination, and if necessary, treatment.

During the year, 45 persons have been notified to the Medical Officer of Health as the source of infection, in each case by one person under treatment for Venereal Disease. One person has been notified as the source of infection in two cases. Regulation 33B gives no power to compel the person who is only cited once as the source of infection to submit to examination and treatment.

All the persons notified to the Medical Officer of Health have been females. One of the Venereal Diseases nurses has been devoting half her time to tracing persons notified under Regulation 33B, and to making contact with patients attending the centre who have been defaulting in their attendances for treatment.

The one woman cited in two instances as the source of infection was found and treated. The nurse has also been working outside the scope of Regulation 33B and has been trying to make contact with the women cited in one instance only as the source of infection. Many difficulties have been encountered. In many cases the information given in the notification is insufficient to identify the woman. A given name only may be available, no address may be known or a public house or some other place of public resort may be the only indication of her whereabouts. When an address is given it often turns out to have been temporary. Of the forty-five women notified, it was only possible to make personal contact with fourteen of whom nine were persuaded to come for examination and treatment.

# ANNUAL REPORT of the

# PUBLIC ANALYST AND BACTERIOLOGIST

# for the year ended December 31st, 1944.

The following is the report on the work carried out in the Borough Laboratory.

SUM	IMARY.			Number of Samples.
	Food and Drugs	1		439
	Bacteriological Examinations of Milk		182	324
	Analyses for the Waterworks Committee			705
	Milks from Townleys Hospital			32
	Bacteriological Examination of Water fro	om Tu	irton	
	U.D.C			2
	Atmospheric Pollution			51
	Miscellaneous Examinations		bo	9
				1,562

# PUBLIC HEALTH COMMITTEE.

FOOD AND DRUGS.

		Total.	C	enuine	. Adı	ilterate	ed. A	Per cent Adulterated	1.
Milk		 281		266		15		5.34	
Butter		 5		5		0		_	
Margarine		 2		2		0		No. of s	
Cheese		 2		- 2		0		-	
Lard		 4		4		0		-	
Coffee		 6		6		0		NO. 51	
Cocoa		 3		3		0		N60-	
Sausage		 25		25		0		-	
Malt Vineg	gar	 15		15		0		10001010	
Spices		 17		17		0		-	
Baking Po	wder	 9		7		2		$22 \cdot 22$	
Cereals		 38		38		0		No.018	
Spirits	·	 4		2		2		50.00	
Beer		 9		9		0		-	

			Total.	(	Genuine	e. Ad	lulterat	ted.	Adulterated.
Cyder			2		2		0		
Drugs			14		14		0		11-11-11
Miscellan	eous		3		3		0		
		berna.	439		420		19		4.33
		-					-		TY there

MILK.

Total examined.	Genuine.	Adulterated
281	 266	 15 *

All the samples were examined for preservatives and colouring matter. In no case was any found.

The satisfactory quality has been maintained, the average being (exclusive of skimmed milk) for the year :--

Milk Fat	1	Non-fatty Solids	s.	Water
3.88%		8.80%		87.32%

Minimum limits :---Milk Fat 3.00%; Non-fatty Solids 8.50%

BACTERIOLOGICAL EXAMINATION OF MILK.

PASTEURISED MILK.

No. of samples examined	 	 13
Average Agar Count per ml.	 	 6,613
No. satisfying phosphatase test	 	 11
No. satisfying methylene blue test	 	 13

# STERILIZED MILK.

No. of samples examined	68
No. of samples which satisfied methylene blue test	68
No. of samples which satisfied phosphatase test	65

### TUBERCULIN TESTED MILK.

No. of samples	examined				34
No. of samples	which satisfied met	hylene	blue te	est	32
No. of samples	containing B. Coli	in 1/10	Oth m	l	4

The two samples which did not satisfy the methylene blue test decolourised the methylene blue in  $4\frac{1}{2}$  and  $3\frac{1}{2}$  hours respectively.

#### ACCREDITED MILK.

No. of samples examined	 189
No. of samples which satisfied methylene blue test	 185
No. of samples containing B. Coli in 1/100th ml.	 10

The four samples which did not satisfy the methylene blue test decolourised the methylene blue in  $4\frac{1}{2}$ ,  $4\frac{1}{2}$ ,  $1\frac{1}{2}$ ,  $3\frac{1}{2}$  hours respectively.

## VENDED MILK.

No. of samples examined	 20
No. of samples which satisfied methylene blue test	 17
No. of samples containing B. Coli in 1/100th ml.	 2

The three samples which did not satisfy the methylene blue test decolourised the methylene blue in  $3\frac{1}{2}$ ,  $4\frac{1}{2}$ ,  $5\frac{1}{2}$  hours respectively.

### MISCELLANEOUS EXAMINATIONS.

- 4 Kit washings.
- 4 Waters.
- 1 Wine.

EXAMINATIONS FOR THE WATERWORKS COMMITTEE.

Routine water examinations ... ... 705

Of the above 705 samples, 237 were filtered waters sampled at the Filter Stations. These gave the following results :--

AGAR COUNT (Total No. of organisms of all types per ml. growing on Agar at 37° C.) :

Average Agar Count per ml. ... 2

B. COLL.

B. Coli.

0 Good.

- 1-2 Tolerable.
- 2-4 Unsatisfactory.

# Above 4 Bad.

No. of samples with 0 Typical B. Coli per 100 mils. ... 236 or 99.58%No. of samples with 1 Typical B. Coli per 100 mils. ... 1 or 0.42%

C1 WELCHII.

Negative in 50 mils. ... ... 237 or 100.00%

Meteorological Summary, 1944

(Compiled at Queen's Park Observatory by E. HENDY, F.R.Met.S.)

Total		6.159	2.347	906.0	3.173	3.043	3.776	3.985	3.630	6.159	5.544	8.191	3.602		50.512 4.209
	Date	4	28	26	25	28	19	17	9	12	9	6	6		
Sunshine	Maximum in one day hours	5.6	8.5	10.0	13.5	14.0	14.7	12.9	13.5	9.2	7.8	7.5	0.9		
	Total Amount hours	16.5	56.0	86.1	132.3	175.6	144.5	95.4	177.0	98.2	1.17	37.6	26.5		1122-8 93-6
NI	Date	11	29	15	1	-	11	16	21, 31	10	67	28	6		2
bsolute extremes of Temperature	Lowest	24.9	21.3	23.8	30.2	33.4	40.2	48.1	46.2			28.8			
Absolute extremes of Temperature	Date	13	63	27	30	29	22	17	-	18	9	22	17		alt
	Highest	53.1	54.7	63.0	64.2	83.1	73 - 5	0.11	9.61	0.02	60.2	55.0	52.7		
Mean of Maximum and	Tempera- ture	41.99	38.23	40.16	48.59	51.00	53.89	58,82	60.56	53.67	47.61	42.18	38.49		575-72 47-98
Mean	Humidity %	90.1	81.5	81.6	78.9	0.92	6.11	83.0	76.7	83.3	85.6	88.5	0.16		994 · 1 82 · 8
Decomptor	<i>"</i>	30.088		30.146	29.994	30.111	29.903	29.881	30.001	29.987	20.503	29.730	29-926		359 • 427 29 • 952
1001		January	February	March	April		June	July	August		October	November	December		Totals Averages

Rainfall. Average 1887-1944 = 42.685"

47

Tenner         Anale         Data         Data <thdata< th="">         Data         Data         &lt;</thdata<>
Terrery direction rate for the line of the
NUMBER OF DESCRIPTION OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION       NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION     NUMBER OF DESCRIPTION
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